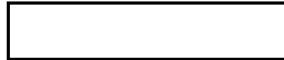


SECRET

MONTHLY REPORT



25X1

PAR 222

7 August 1964

SUBJECT: Stereo Registration System

TASK/PROBLEM

1. Investigate possible means for automatically maintaining proper registration for stereo viewing on rear projection and direct viewing roll film viewers.

DISCUSSION

2. Electrical:

a. The logic and associated power supplies were assembled into a rack cabinet for ease of transportation and hook-up. A meter panel indicates the registration errors "X, Y, Θ , and M". The logic has been tested, using artificial signal sources, and functions properly.

b. A sweep circuit for the C.R.T. is mounted on one of the logic plug boards. The circuit consists of two push-pull emitter followers, one for each yoke coil for the tube.

3. Optical-Mechanical:

a. The optical breadboard has been assembled with the exception of visual viewing. Collimation will be necessary to align images.

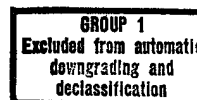
b. Preliminary tests, observing the photo-multiplier signals, indicate light level unbalance. This may be in the beam splitter.

4. Figure 1, Stereo Registration Console, shows the location of the various components.

PLANNED ACTIVITY

5. Align optics and connect P.M. tube to logic. Test system using basic targets (cross, checker board, lines). Test system using identical scenes and progress to stereo scenes.

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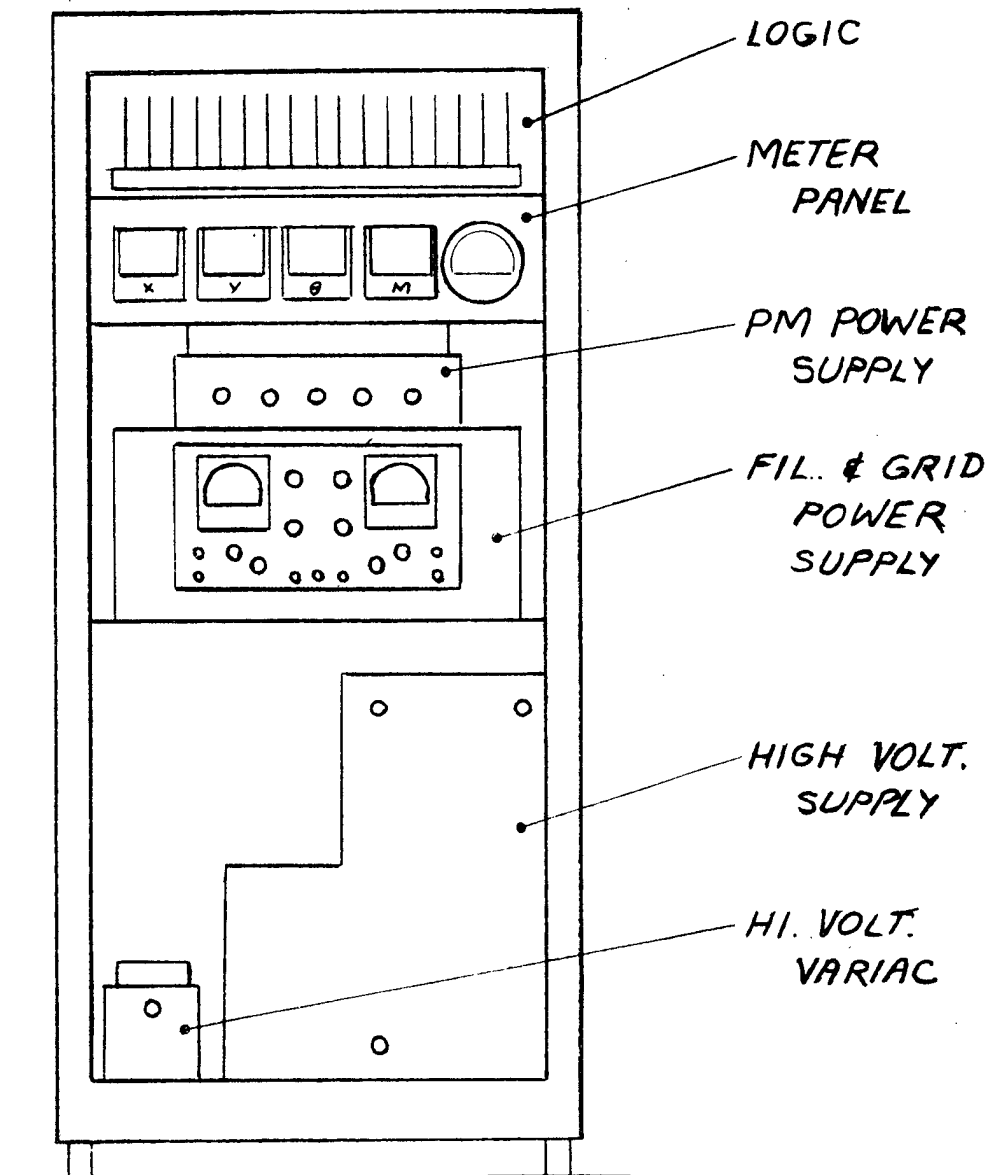


Declass Review by NGA.

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STEREO REGISTRATION
CONSOLE

FIGURE 1

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GROUP 1
Excluded from automatic
downgrading and
declassification